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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/923,394	_	08/08/2001	Koki Hirasawa	NU-01011	2347		
466	7590	04/07/2006		EXAMINER			
YOUNG	& THOM	PSON	<i>y</i>	ERDEM	ERDEM, FAZLI		
745 SOUT	TH 23RD S	TREET					
2ND FLOOR				ART UNIT	PAPER NUMBER		
ARLING	TON, VA	22202		2826			

DATE MAILED: 04/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Applica	tion No.	Applicant(s)				
Office Action Summary			394	HIRASAWA ET AL.				
			er	Art Unit				
		Fazli Ero	iem	2826				
Period fo	The MAILING DATE of this commun or Reply	ication appears on ti	he cover sheet with the d	correspondence address				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M resions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply is specified above, the maximum stree to reply within the set or extended period for reply eply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF T of 37 CFR 1.136(a). In no en nunication. atutory period will apply and will, by statute, cause the ap	THIS COMMUNICATION Event, however, may a reply be tir will expire SIX (6) MONTHS from poplication to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status								
1)🔯	Responsive to communication(s) file	ed on <i>17 January 20</i>	06.					
·		2b)⊠ This action is						
3)	Since this application is in condition	for allowance excep	ot for formal matters, pr	osecution as to the merits is				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🛛	Claim(s) 2-4,7-10,12-15 and 19-22 i	s/are pending in the	application.					
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)🛛	Claim(s) <u>2-4,7-10,15 and 19-22</u> is/are allowed.							
6)🛛	Claim(s) 12 and 13 is/are rejected.							
7)🛛	Claim(s) 14 is/are objected to.							
8)[Claim(s) are subject to restrict	tion and/or election	requirement.					
Applicati	on Papers							
9) 🔲	The specification is objected to by the	e Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including	the correction is requ	ired if the drawing(s) is ob	ejected to. See 37 CFR 1.121(d).				
11)	The oath or declaration is objected to	by the Examiner. N	lote the attached Office	Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) D Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date 11/16/2005.		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 2-4, 7-10, 15 and 19-22 allowed.
- 2. Claims 14 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 12 and 13 rejected under 35 U.S.C. 103(a) as being unpatentable over Kobachi et al. (6,060,337) in view of JP (09-83013) (Prior art submitted by the applicant).

Regarding Claims 12 and 13, Kobachi et al. disclose a photoreflective detector including a light emitting element and a light receiving element located at different distances from an object reflecting light from the emitting element where in Fig. 13, it is disclosed a pair of element loading portions loaded with semiconductor elements 212A, 212D, and 210 and positioned one above the other within light transmitting resin 219, a seal resin 219 sealing pair of element loading portions within the light emitting resin and leads 215 and 213 connected to respective semiconductor element being exposed on

seaing resin 219 where the upper element loading portion is unbent within the light transmitting resin. Kobachi et al. fail to disclose the required coplanarity and the required light emitting/light receiving portions for the photocoupler. However, JP 09-83013) discloses a semiconductor device where in Fig. 2 the required coplanarity and the required light emitting and light receiving portions of the photocoupler device is disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required coplanarity and the required light emitting and light receiving portions of the photocoupler device in Kobachi et al. as taught by JP 09-83013 in order to have a semiconductor device with increased ease of manufacture and reliability.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/923,394 Page 4

Art Unit: 2826

Information regarding the status of an application may be obtained from the Patent

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applications is available through Private PAIR only. For more information about the PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE April 3, 2006